

Patent Claims

- 5 1. A pigment comprising a platelet-shaped substrate comprising thereon
at least a 5-layer sequence of
- (A) a layer of SnO_2 , having a layer thickness of 0.1-50 nm,
- 10 (B) a layer of TiO_2 in rutile modification, having a layer thickness of
10-800 nm,
- (C) a colorless coating having a refractive index $n \leq 1.8$, having a
layer thickness of 20-800 nm,
- 15 (D) a layer of SnO_2 , having a layer thickness of 0.1-50 nm,
- (E) a layer of TiO_2 in the rutile modification, having a layer thickness
of 10-800 nm
- 20 and optionally
- (F) an outer protective layer.
- 25 2. The five-layered pigment according to Claim 1, wherein the platelet-
shaped substrate is natural or synthetic mica, glass, or Al_2O_3 , SiO_2 or
 TiO_2 platelets.
- 30 3. The five-layered pigment according to Claim 1, wherein layer (C) is
 SiO_2 , Al_2O_3 , $\text{AlO}(\text{OH})$, B_2O_3 , MgF_2 , MgSiO_3 or a mixture thereof.
4. The five-layered pigment according to Claim 1, having an outer
protective layer (F) increasing light, temperature and weather
stability.
- 35 5. A process for the preparation of a five-layered pigment according to
Claim 1, comprising coating the substrates by a wet-chemical method
with hydrolytic decomposition of metal salts in aqueous medium.

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6. In a paint, coating, powder coating, printing ink, security printing ink, plastic, ceramic material, glass, dopants for laser marking of paper or plastic, cosmetic formulation, pigment preparation or dry pigment preparation comprising a luster or effect pigment, the improvement wherein the luster or effect pigment is a five-layered pigment according to claim 1.
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7. A pigment preparation comprising at least one binder, and at least one five-layered pigment according to Claim 1.
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8. A Pigment preparation according to Claim 7, which is a dry preparation.
9. The dry preparation according to Claim 8, comprising from 0 to 8% by weight of water and/or a solvent or solvent mixture.
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10. The dry preparation according to Claim 9, in the form of pellets, granules, chips or briquettes.
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11. A hydrophilic, hydrophobic or lipophilic cosmetic formulation comprising at least one five-layered pigment according to Claim 1.
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